

DR. SELDON BERNSTEIN

THE JACKSON LABORATORY • BAR HARBOR, MAINE 04609

MESSAGE

REPLY

TO

DATE

DATE

5-17-74

Dear Victor:

Sorry to be so long in replying to your letters of May 1 and 8. I've been away on a fund drive and have just returned to find them waiting for me. Please give my very best wishes to your entire family who went out of their way to make my very brief visit so pleasant.

Seldon

BY

SIGNED

MAY 20 1974

INSTRUCTIONS TO SENDER:

1. KEEP YELLOW COPY. 2. SEND WHITE AND PINK COPIES WITH CARBON INTACT.

INSTRUCTIONS TO RECEIVER:

1. WRITE REPLY. 2. DETACH STUB, KEEP PINK COPY, RETURN WHITE COPY TO SENDER.

Footnotes - Revisions, suggestions, questions, etc., regarding the proposed provisional Medical Genetics Program.

(Footnote numbers refer to item numbers on the original program, which is appended.)

1. Consider having Hamerton serve as coordinator of the entire section on cytogenetics.
2. Eicher wishes to present "mapping of genes without recombinations."
3. I feel we have a serious weakness at this spot, needing a transition between chromosome methodology and hemoglobin structure and function. Perhaps a session devoted to primary gene action, gene activation, translation, etc., would be in order. Is Boyer prepared to do this?
4. Perhaps Kazazian would act as group organizer for Session 3.
5. Consider Sriver as group leader for Sessions 5 and 6 on inborn errors of metabolism?
6. Include Coleman on the subject of diabetes and obesity: influence of genetic background on pathophysiological expression.
7. Definitely include George Snell.
8. Yes, do eliminate blood groups. Would you suggest Poljak as group leader? Should we include anything here on autoimmunity?
9. I wonder if we should consider including Kaliss under the immune responsiveness section, possibly talking about enhancement or tolerance or something of this sort?
10. Leave it as it is.
11. From my distant viewpoint, it appears that mapping of the human genome occupies proportionately too much time. Would you consider cutting this to one session by eliminating the evening talk? Who is going to head this up? Whoever it is, he must be a strong leader who is capable of limiting Ruddle to one hour and no more. Is Ruddle essential to the program?
12. As I have just indicated, consider deleting this session on the mapping of the human genome, and consider substituting Tibby Russell on "genetic aspects of aging." Since aging and development occupy but a single short morning, what with the mouse clinic. This is all too short a time, I feel, to develop any kind of a meaningful story both on aging and development.

13. Include Harrison on aging. How do we make a transition between aging and development? Include Kozak, who wishes to talk on genetic control of fetal isozymes. Include Bernstine on genes in development. Consider including Stevens on teratogenesis.
- 14, 15, and 16. All right as they stand.
17. Delete Arias. Eliminate student papers. Consider replacing this session with one of the following: Developmental anomalies, genes-viruses and cancer, pharmacogenetics, anemias, clotting abnormalities, mutagenesis. Or, compact the entire program by moving the following sessions (18, 19, 20, etc.,) up one time-slot. Note that the last Friday has an assigned evening slot which, in my view, should be eliminated because of a considerable number of student and faculty departures on Friday, with the resultant non-attendance at the last lecture. I am not suggesting that we delete the session's (20) topic, but rather that we move the schedule up.
18. Does Boyer's talk cover geographic and racial distribution of inherited disease syndromes? I think this is an important area to be covered either here or somewhere else.
- 19, 20. Excellent end topics. They should be retained in this schedule as you have outlined it.

GENERAL COMMENTS: I wonder why sessions 2 and 11 are separated in time. If this is for Public Relations reasons, I understand and agree. If this is not the case, then perhaps a tighter schedule might be made by sequencing as follows: Session 1 - Hamerton's talk on meiosis, etc., Session 2 on cytogenetics followed by Session 14 on genetics of sex abnormalities, and then session 11 on the mapping of the human genome.

I suspect that I will have to stick my nose in somewhere and talk a little bit about phenocopies, the problem of mimicry, and gene-environment interaction in phenotypic *expression*.

Tentative, preliminary, provisional program. Apr. 26, 1974

July 29 - Aug. 9, inclusive

1st week

Monday	A.M.	Earl Green - welcome McKusick - general remarks Earl Green - Segregation, assortment, linkage McKusick - Mendelian genetics in man	
	P.M.	Hamerton - meiosis, mitosis, gametogenesis - introduction to cytogenetics	
Tuesday	A.M.	Cytogenetics) (Borgaonkar, Eichner, Gerald	
	P.M.	") (Hamerton, Ruddle etc. (picnic in afternoon)	
Wed.	A.M.	Hemoglobin (DNA-RNA-protein discussed in relation to it) (Cytogenetics workshop in afternoon)	(Boyer (Kazazian (Poljak (Gerald (Russell (Smith
	P.M.	Inborn errors of metabolism <i>transport defects</i>	Scriver
Thur.	A.M.	Inborn errors of metabolism <i>vitamin response</i> <i>Robin Bannerman</i> <i>Porphyria</i>	(Scriver (Coleman) <i>Danz</i> (Goldstein (on hyperlipoprotein- emias)
	P.M.	Snell (Biochemical workshop in afternoon)	

- (8) Friday A.M. Immunogenetics
- Histocompatibility in man
 - Immune responsiveness
 - Blood groups (consider eliminating)
 - Immunoglobulins (structure, genetics and evolution)
- (9) P.M. Immunogenetics
- Immunoglobulins: Allotypes
 - Immune deficiency disease
- (Biochemical workshop in afternoon)
- (10) Saturday A.M. Statistical and population genetics
- Murphy
Abbey
Chase
- Emphasis on the statistical basis of genetic counseling (probability, segregation, analysis) and the effect of treatment, selective abortion, etc. on gene frequencies.

2nd week

(11) Monday A.M. Mapping the human genome) (Chase
 (12) P.M. " " " ") (Eichner
 (Margaret Green)
 (Gerald
 (Margaret Green
 (Hamerton
 (McKusick
 (Ruddle

(Statistical workshops in afternoon)

(13) Tuesday A.M. Genetics of development and aging Schneider
 Kazazian
 Russell
 Kozak
 Harrison
 Whitten
 Mouse Clinic Margt. Green et al.
 in collaboration with medical
 members of faculty

(14) P.M. The genetics of sex abnormalities Goldstein
 (Statistical workshop in afternoon)

(15) Wednesday A.M. Lysosomal diseases Kelly
 McKusick
 Thomas
 Schneider

(16) P.M. Heritable disorders of connective tissue McKusick
 (Statistical workshop in afternoon)

(17) Thursday Miscellaneous short papers by students and staff
 ? Arias
 (Medical genetics clinic in afternoon)

(18) P.M. Evolution Boyer
 Slide show of previous sessions of the
 "Bar Harbor" course McKusick

Friday

A.M.

Prenatal diagnosis by amniocentesis

(Kazazian
(Kelly
(Schneider

Screening (neonatal, carrier etc.)

(Kazazian
(~~Scriven~~
(Thomas

Genetic counseling

(Chase
(Murphy

Treatment (management) of genetic disease

Scriven OK

Signal to noise
more than 1
test - for
heterozygotes
heterozygotes
anyway
Finner
Send

P.M.

Social and ethical issues of human genetics